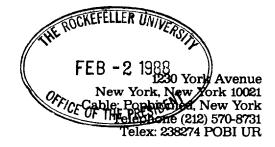
The Population Council

Center for Biomedical Research



January 25, 1988

Joshua Lederberg The Rockefeller University New York, New York 10021-6399

Dear Josh:

Thank you for sending me your presentation on "The Second Century of Louis Pasteur: A Global Agenda for Biomedical Research". I was certainly stirred by your remarks. Your ideas coincide with many of my own. There is certainly an astounding amount of things to be done in the world and it is exciting to be involved in some of them.

Regarding the questions in your note:

Isolated Germ cells cannot be cultured separate from the seminiferous epithelium. Segments of the epithelium, however, can be cultured for several weeks in the absence of hormones. Sperm cells per se are terminally differentiated; however, virtually all gonia are in the chain of differentiation prior to the formation of flagella can divide to form precursor cells for numerous spermatozoa. The extent to which nuclei of immature gonia are capable of fertilization is not known. I am afraid that our state of knowledge regarding the nature of germ cells prior to terminal differentiation is so sketchy that we cannot answer the dilemma that you pose on page 5 of your manuscript.

Best wishes.

Sincerely yours,

C. Wayne Bardin, M.D.

Director

Ton 28 We enjoyed the Unit last used